SLIn / SLOut Addressing

Millenium 3 and EB MTPX/XX software

A brand of CST
CUSTOM SENSORS & TECHNOLOGIES

SLIn/SLOut Addressing

SLIn = Serial Link In → Function block that allows M3 to read 8 words by using the M3 programming port.
3 blocks with 8 words each can be used (addresses 1-8, 9-16, 17-24)

SLIn S → Same as SLIn but saves values at power failure.
We recommend to use this function in connection with the MTP screens
(Use *either* SLIn S *or* SLIn in a program, *do not mix* both types)

SLOut =
Serial Link Out → Function block that allows M3 to write 8 words by using the M3 programming port.
3 blocks with 8 words each can be used (addresses 25-32, 33-40, 41-48)

M3 → Millenium 3

MTP = Millenium Touch Panel → Touchscreen of the M3

EB → Programming software of the MTP 06 / 08

SL_IN → Word address in EB related to an SLIn function block

SL_OUT → Word address in EB related to an SLOut function block

SLI_Bit → Bit address in EB related to an SLIn function block

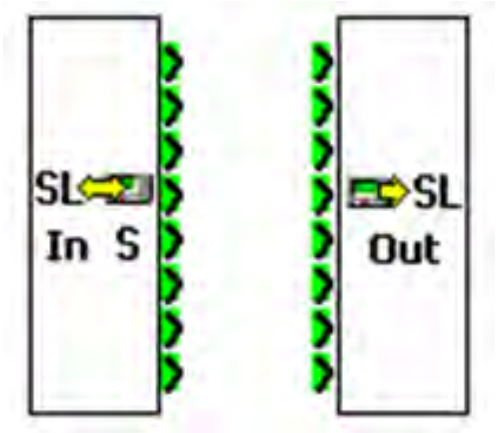
SLO_Bit → Bit address in EB related to an SLOut function block

SLIn/SLOut Addressing

Addressing

Words and Bits are used for the data exchange between the MTP screens and M3

MTP ⇒ M3



M3 ⇒ MTP

Word address area:

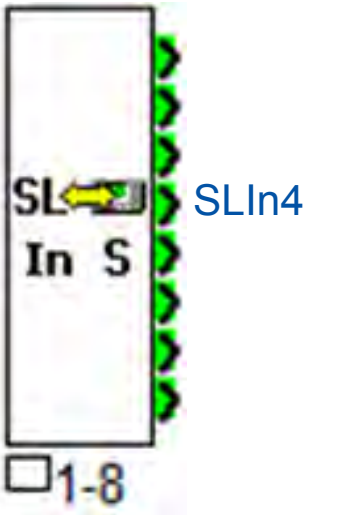
Millenium 3: SLIn 1 – 24 ⇒ EB: SL_IN 1 - 24

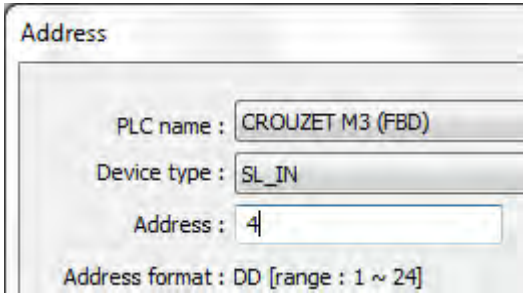
Millenium 3: SLOut 25 – 48 ⇒ EB: SL_OUT 25 - 48

SLIn/SLOut Addressing

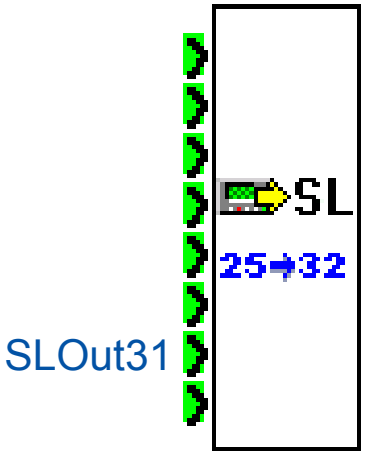
Word addressing example

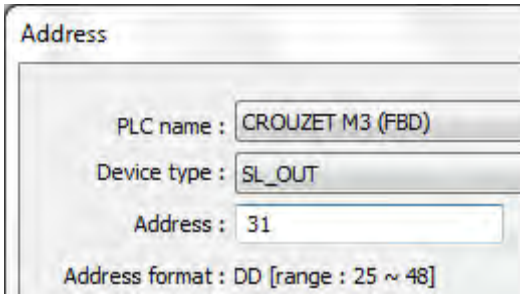
M3: SLIn4 ⇒ EB: SL_IN4





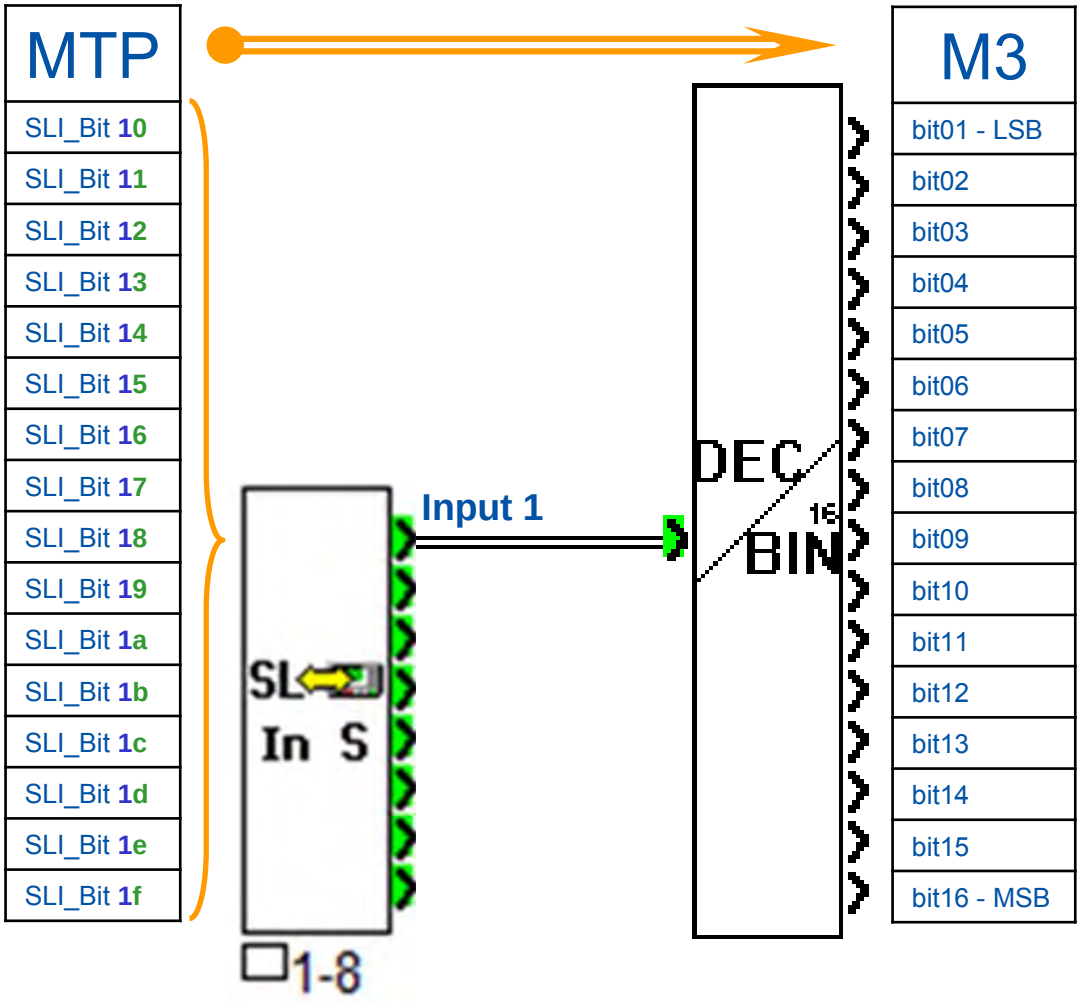
M3: SLOut31 ⇒ EB: SL_OUT31





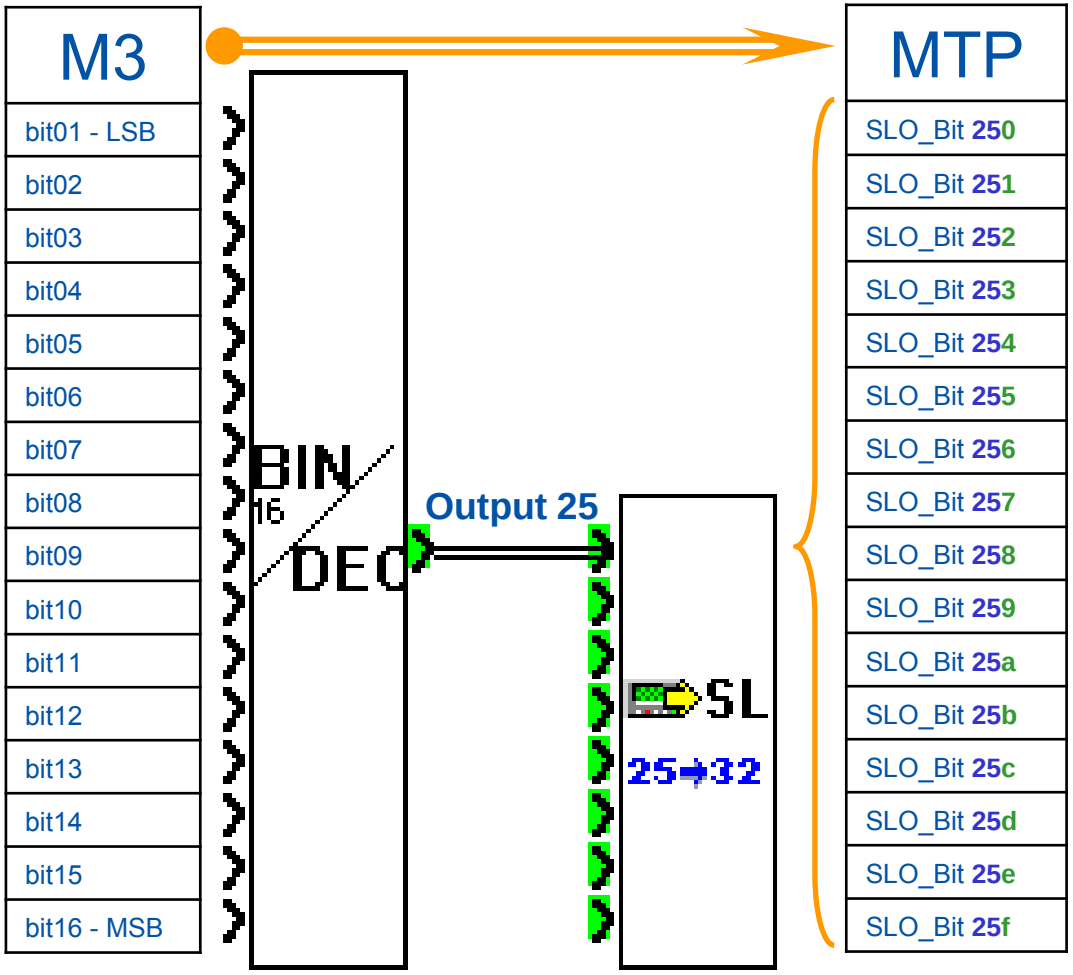
SLIn/SLOut Addressing

Addressing a bit – SLI_Bit



SLIn/SLOut Addressing

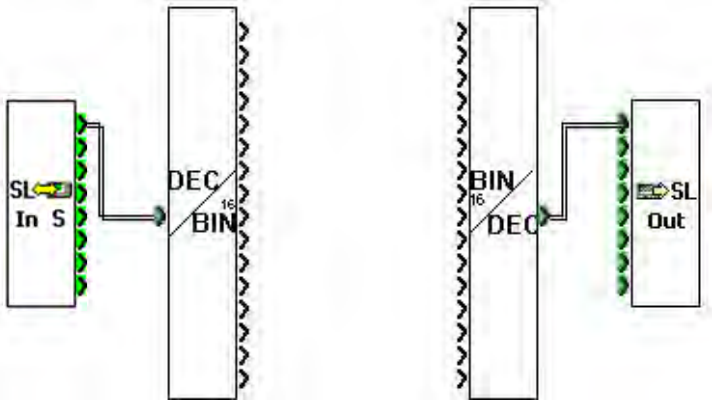
Addressing a bit – SLO_Bit



SLIn/SLOut Addressing

Summary:

Addressing bits in M3 is done with these function blocks:



How to address a bit in EB:

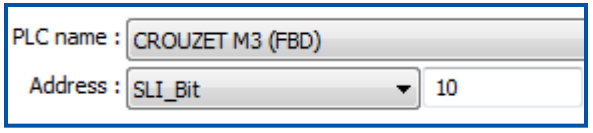
The bit addresses (SLO_Bit or SLI_Bit) are described like this: N°word + N°bit

Example: To work with bit 15 on SLOut12, it will be noted as SLO_Bit 12e.

The address area ranges from 1 to 48 and is defined as follows:

Bit SLIn 1.1 – 24.16 of M3

⇒ SLI_Bit 10 to 24f in the EB



Bit SLOut 25.1 – 48.16 of M3

⇒ SLO_Bit 250 to 48f in the EB